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A GUIDE AND AN ANALYSIS OF ENGLER'S "DAS PFLANZENREICH"

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An attempt is made here to clarify some inconsistancies of detail, which have appeared over a period of 57 years, in the 107 issues of the above serial publication.

A foreword giving the scope of Engler's monographic botanical work "Das Pflanzenreich" was issued in 1900 with the first part published, MUSACEAE IV 45, Heft 1, i—vii. This included a note on the need of a more detailed work than Pflanzenfamilien; a "General Plan for the treatment of the work"; "Manner of Publication" and the "Guarantee of the Undertaking". Then followed a "Survey of the arrangement of Pflanzenreich". Here the plant kingdom was divided into four groups, and those families belonging to group IV have been listed out, with their allotted family number. The following instruction was given. "Figures in the right hand top corner of the cover of each Part indicate (a) the Group and (b) the Family. Thus IV 45 represents the 45th Family of Group IV ... The family signs of these three groups i.e. I—III will be communicated later as during the next few years only the families of Group IV will appear to begin with."

Issued in 1900 with TYPHACEAE IV 8, Heft 2, p. 1—11, were given three indices of abbreviations for (1) authors, (2) journals and (3) some important works to be cited, etc. In the light of current knowledge, the above indices have been replaced by the "International Code of Botanical Nomenclature" Utrecht 1956. "The World List of Scientific Periodicals" 3rd ed. London, 1953, is a widely used standard for abbreviating titles. "Flora Malesiana" Vol. 1 (1950)+ is a valuable contribution in the field of botanical bibliography. No standard will be satisfactory to all, but some standard is better than none.

The continued aim of the whole work was given in a publisher's leaflet issued with CAMPANULACEAE — Lobelioideae II, IV 276b, Heft 107, (1953).

Simultaneously, by temporary permission of Engelmann, the Akademie-Verlag, Berlin, also re-issued Part I of Campanulaceae (Heft 106), stocks of which had been destroyed by bombing. The publishing firm of H. R. Engelmann (J. Cramer) reopened in 1956, and is now located at Weinheim/Bergstrasse, Postfach 166, West Germany. Engelmann holds the copyright of Hefts 1—106. During 1956—7 Engelmann had re-issued, backwards, Hefts 84—105, and is continuing to [illegible] of the Heft numbers during 1957—8.

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Details of publication, to date, are as follows:

Hefts 1—106	(1900—1943)	issued by Engelmann, Leipzig, Germany.
„ 105—90	(1939—1927)	re-issued by Engelmann, Stuttgart, Germany, during 1956, as Photolithographic Reprints.
„ 106	(1943)	re-issued by Akademie Verlag, Berlin, Germany, 1956 as Photolithographic Reprint.
„ 107	(1953)	issued by Akademie Verlag, Berlin, Germany.

A library shelves a serial publication in one of two ways. It may be either in order of issue, which in this case is Heft numbers (and is only a publisher's guide), or according to its subject content. Whichever method is adopted, a key is essential to easy and quick consultation. As the parts have been issued over a period of years, with no uniform extention of larger families, Heft numbers or pagination, difficulties have arisen for the botanist wishing to make citations from this work, and for the researcher.

The aim of this key is to aid these workers, by explaining the complications and presenting a detailed table of contents under "Alphabetical List of Families". This table is supplemented by three indices under:

1. Systematic List of Family numbers so far treated, as given in the Foreword to the whole work in IV 45 Musaceae.
2. Alphabetical List of Authors, in chronological order under authors.
3. Heft numbers and chronological order of issue.

The family numbers for Group IV, as set out in the above Foreword to the whole work, indicate both the progressive order in which the parts may stand on the library shelf, and their systematic relation to each other. As given in the Foreword, it is the intention for this publication to be shelved in systematic sequence; *see* Index I.

Where necessary, family numbers have been extended to indicate sub-division within the families as the parts were issued. These extentions have been arbitrary. Thus, in CUCURBITACEAE, the Roman numerals I & II were used after the family number 275. ARACEAE has been divided by both capital and small alphabetical letters, e.g. IV 23 D b. For ORCHIDACEAE, Roman numerals, Capital alphabeticals, followed by Arabic numerals give IV 50 II B 21, which represents Kraenzlin's ORCHIDACEAE — Monandreae — Dendrobiinae, Part I. This example in Orchidaceae follows the extention numbers given in Engler & Prantl, "Pflanzenfamilien" 1889. The Botanical Schedule of the Universal Decimal Classification is based on Engler — Diels "Syllabus der Pflanzenfamilien" (1936); but this extention has not always been used by Kraenzlin in "Pflanzenreich". For ORCHIDACEAE — Monandreae — Pseudomonopodiales he gives IV 50 on the title page. If it had been extended on the same pattern as the first example it would read IV 50 II B 30. Yet, to adopt a set standard of expansion, in any way, would make this publication inflexible, and the haphazard method of issue is unavoidable. In the light of changing concepts in Taxonomy and to preserve the great value of this flexible classified publication, limiting factors should be avoided. For COMPOSITAE, MALPIGHIACEAE and SAXIFRAGACEAE, however, no such extention indicators have been used, because continuous pagination has extended with each issue, until the family, or a family section has been completed.

No plan has been followed by authors and editors regarding pagination. The family SAPINDACEAE, monographed by Radlkofer, is an example where parts appeared over a period of years (1931—34) with continuous pagination, but with

extended Heft numbers. The Heft issues are given in Index 3, where it will be seen that several families, or sections of a family, have been issued under the one Heft number, e.g. Hefts 2, 5, 16, 41, 47 and 68. Heft numbers were not originally placed on the title page. All the above variations of extention may be surveyed in the "Alphabetical list of Families".

Collector's herbarium material, cited in Monographs as type material, is sometimes listed at the end of a work. A column headed "Page(s) of Index to Collector's Numbers" is given in the table because it is believed that the reference may be a useful guide to herbarium specimens.

In the table heading where Page(s) is given, it is to indicate that the numbers below may refer to a single page, or a set of pages. In the column "Total number of page(s)" all entries are to read as from one to the given total number; exceptions have been entered in the column. In the final column under the heading "Page(s) for Addenda etc.", is listed Addenda — abbreviated to Add. — when this is given at the end of a work. Additamentum — abbreviated to Addit. — is usually given on the title page. When this is the case the entry will also be given under the family column. They are an additional supplement of a family, issued after the work to which they refer was published. (e.g. EUPHORBIACEAE Additamentum. Numbers I to V are not given on the title page, but numbers VI and VII are issued under separate family extention numbers, and are given on the title page. *see* EUPHORBIACEAE). Fossil Flora — abbreviated to Fossil — and Hybrid lists when listed are given in "Page(s) for Addenda etc."; also any entry that does not conform with the general layout of the work as given in the foreword. The greatest divergence from this suggested layout is the fact that the text of SARRACENIACEAE IV 110, by L. M. Macfarlane (1908), was issued in English. Most monographs follow this layout and should be studied to familiarise a searcher with the possible scope of information contained in a monograph of "Pflanzenreich".

If a family or its sections are not listed in the table of contents, it has not yet been published. If the treatment of a family is incomplete, this is stated immediately below the family name in the Family column, in the Table of Contents, otherwise the treatment of a family is complete in the issue(s) given. The indenting of some family headings, divisions and sub-divisions is done only where a family is incomplete or where it has been issued in sections. The use of the term "incomplete" applies only to the date of issue of this paper.

A blank column has been left at the end of each entry for libraries to enter their own call (or finding) number. Thus enabling a section to be quickly found by anyone, under whichever method a citation is given, or the serial is shelved. Each entry is taken from the title page, or outside wrapper, and by collating each issue. If a wrapper of a serial carries essential information, not included on the title page, the wrappers should be bound with the issues, or a reference set should be bound and shelved with the publication.

As the main aim of this paper is to enable everyone to use "Das Pflanzenreich" without referring to any other authority, no specific set of abbreviations has been used, because these are of value only when a reader knows what the abbreviations mean.

Forms of citation from "Pflanzenreich" vary. After the specific or generic name:

KEW INDEX quotes author, followed by Engl. Pflanzenreich, then family, and/or sub-section (both abbreviated), then page number and last, date in brackets.
e.g. Wolff in Engl., Pflanzenreich, UMBELLIFER.-Saniculoid. 100 (1913).

FLORA MALESIANA quotes author, Pflanzenreich, Heft number, date in brackets, followed by page.
e.g. Wolff in Pflanzenreich Heft 61 (1913) 100.

INTERNATIONAL CODE of BOTANICAL NOMENCLATURE (1956) indicates the abbreviation Pflanzenr. There is no guide to the method of quoting a substitute for volume number, (which here in part is the family number) but the Code does set out the form which a citation should follow. If the family number in place of the volume is used, we have:
e.g. Wolff in Engl., Pflanzenr. IV 228 (Heft 61): 100. 1913.

FLORA of JAMAICA now uses this form, but includes the abbreviated family name.
e.g. Wolff in Pflanzenr. IV 288 (UMBELLIFER.-Saniculoid.) 100 (1913).

INDEX NOMINUM GENERICORUM does not abbreviate: it quotes author, Engler, Pflanzenreich, family number, Heft number in brackets, page, date and year in the order suggested by the Code:
e.g. Wolff in Engler, Pflanzenreich 4. 228 (Heft 61): 100. 16. Dec. 1913.

We have here five ways in which to cite a section of "Pflanzenreich". The first two examples illustrate the two methods discussed at the beginning of this paper by which a library may shelve a serial publication. They further illustrate that certain workers, by the methods with which they are familiar, and probably influenced by their library policy, think to locate the sections in "Pflanzenreich". None of these methods are adequate without a further guide, and this paper is offered as that guide.

It is a pleasure to acknowledge, with thanks, the valuable help given to me in the compilation of this paper. For the Systematic Botany Committee (Section M) A.N.Z.A.A.S., Miss C. M. Eardley, Botany Department, Adelaide University, South Australia, produced an alphabetical list of families so far treated, during 1947—50, on which the alphabetical list of families is based. In the British (Natural History) Museum, London, Miss P. Edwards, Librarian, and Mr. E. W. Groves, Botanist, have given substantial assistance. To Professor J. Lanjouw and Dr. F. A. Stafleu for their technical assistance, in the publishing of the following table of contents and indices.

Melbourne Botanic Gardens and National Herbarium of Victoria, Australia.

"DAS PFLANZENREICH"

ALPHABETICAL LIST OF FAMILIES

Family and Sections	Family number	Author	Date published	Heft number	Total number of pages	Page(s) of index	Number of illustrations	Page(s) of index to Collectors number(s)	Page(s) of Addenda, Additamentum, Fossil Flora, Hybrids, etc.	Call number
Aceraceae	IV 163	Pax, F.	7. 1.1902	8	89	81—89	14, & 2 distrib. maps		Add. 79—80 Fossil 77—78	
Alangiaceae	IV 220b	Wangerin, W.	12. 4.1910	41	25	25	6			
Alismataceae	IV 15	Buchenau, F.	25. 8.1903	16	66	62—66	19		Fossil 61	
Aponogetonaceae	IV 13	Krause, K. & Engler, A.	2. 1.1906	24	24	24	9	23		
Araceae	IV 23	Both in part, and together: Engler, A. & Krause, K.	1905—20	various	various	various	441, & 1 plate			
Pars. gen. & gen. ind. Syst. outline	IV 23A	Engler, A.	9. 7.1920	74	71	67—71			Geogr. Distrib. 38—47	
Pothoideae	IV 23B	„	13. 6.1905	21	330	318—330	88		Add. 315—317 Fossil 313	
Araceas-Pothoideas Addit.	IV 23B	„	8.12.1908	37	3		1		Addit. 1—3	
Monsteroideae	IV 23B	Engler, A. & Krause, K.	8.12.1908	37	4—139		56, & 1 plate		Add. I 136—137 Add. II 138—139	
Calloideae	IV 23B	Krause, K.	8.12.1908	37	140—161	156—160	3		Bibliog. 140	
Lasioideae	IV 23C	Engler, A.	4. 8.1911	48	130	126—130	44			

Family and Sections	Family number	Author	Date published	Heft number	Total number of pages	Page(s) of index	Number of illustrations	Page(s) of index to Collectors number(s)	Page(s) of Addenda, Additamentum, Fossil Flora, Hybrids, etc.	Call number
Philodendroideae	IV 23Da	Engler, A. & Krause, K.	6. 8.1912	55	134		77			
„	IV 23Db	„	23. 9.1913	60	143		45			
„	IV 23Dc	Engler, A.	15. 6.1915	64	78		34			
Arac.-Philod. Addit.	IV 23E	„	14. 5.1920	71	2				Addit. 1—2	
Colocasioideae	IV 23E	Engler, A. & Krause, K.	14. 5.1920	71	139	133—139	29		Add. 132	
Aroideae	IV 23F	Engler, A.	6. 7.1920	73	1—249	↑	62			
Pistioideae	IV 23F	„	6. 7.1920	73	250—262	↑			Bibliog. 250	
Stylochiton Addit.	IV 23F	„	6. 7.1920	73	263	↑			Addit. 263	
Aroideae } *Pistioideae* } Index	IV 23F	„	6. 7.1920	73	264—274	264—274				
Asteranthaceae	IV 219b	Knuth, R.	22. 8.1939	105	3		2			
Barringtoniaceae	IV 219	Knuth, R.	22. 8.1939	105	82	80—82	16	74—79	Add. 73	
Betulaceae	IV 61	Winkler, H.	17. 6.1904	19	149	140—149	28	136—139	Add. 134 Fossil 130—134	
Borraginaceae (incomplete)	IV 252									
Borraginoideae	IV 252									
— Cryptantheae	IV 252	Brand, A.	27. 2.1931	97	236	226—236	22	218—225	Add. 217	
— Cynoglosseae	IV 252	„	22.11.1921	78	183	174—183	22	165—173	Add. 163—164	

Family and Sections	Family number	Author	Date published	Heft number	Total number of pages	Page(s) of index	Number of illustrations	Page(s) of index to Collectors number(s)	Page(s) of Addenda, Additamentum, Fossil Flora, Hybrids, etc.	Call number
Bromeliaceae	IV 32	Mez, C.	1934—5	100 1—4	667		126			
„ 1—10	IV 32	„	27.11.1934	100 1	1—160	↑	41			
„ 11—20	IV 32	„	12. 2.1935	100 2	161—320	↑	32			
„ 21—30	IV 32	„	28. 5.1935	100 3	321—480	↑	23			
„ 31—42	IV 32	„	10.10.1935	100 4	481—667	641—667	30		Add. 637—640	
Brunoniaceae	IV 277a	Krause, K.	25. 3.1912	54	6		1			
Butomaceae	IV 16	Buchenau, F.	25. 8.1903	16	12	12	5		Fossil 12	
Campanulaceae (incomplete)	IV 276									
comp-lete *Lobelioideae* I	IV 276b	Wimmer, F. E.	25. 5.1943	106	260	↑	55, includ. 4 plates, & 4 maps			
comp-lete *Lobelioideae* II	IV 276b	„	30.12.1953	107	813	785—813	57, includ. 8 plates			
Cannaceae	IV 47	Kraenzlin, F.	22.10.1912	56	77	73—77	16			
Cephalotaceae	IV 116	Macfarlane, J. M.	14. 2.1911	47	15		4		Geogr. distrib. 13	
Cistaceae	IV 193	Grosser, W.	19. 5.1903	14	161	149—161	22	141-148		
Compositae (incomplete)	IV 280									
Hieracium (complete)	IV 280	Zahn, K. H.	1921—23	various	1—1705	1575—1705	93	1569-1574	Add. & Corrig. 1532—1559	
„ I — VII (1)	IV 280	„	4. 2.1921	75	1—288	↑	27	↑		

Family and Sections	Family number	Author	Date published	Heft number	Total number of pages	Page(s) of index	Number of illustrations	Page(s) of index to Collectors number(s)	Page(s) of Addenda, Additamentum, Fossil Flora, Hybrids, etc.	Call number
Hieracium VII cont. — X (1)	IV 280	Zahn, K. H.	10. 5.1921	76	289—576		18			
„ X cont. — XVI (1)	IV 280	„	18.10.1921	77	577—864		15			
„ XVI cont. — XXXIX (1)	IV 280	„	14. 2.1922	79	865—1146		20			
„ XL — XLVII (2)	IV 280	„	27. 2.1923	82	1147—1531		13			
„ Addenda & Corrigenda	IV 280	„	27. 2.1923	82	1532—1559				Add. & Corrig. 1532—1559	
„ Index	IV 280	„	27. 2.1923	82	1575—1705	1575—1705		1569-1574		
Connaraceae	IV 127	Schellenberg, G.	31. 5.1938	103	326	317—326	48	290-316	Add. 289	
Cornaceae	IV 229	Wangerin, W.	12. 4.1910	41	110	107—110	24	102-106		
Cruciferae (incomplete)	IV 105									
Brassiceae										
Sub-tribe I —II (1)	IV 105	Schulz, O. E.	30.12.1919	70	290	269—290	35		Add. 268	
Sub-tribe III—IV (2)	IV 105	„	26. 6.1923	84	100		26			
Sisymbrieae	IV 105	„	22. 7.1924	86	388	365—388	74		Add. 362—364	
Draba & Erophila	IV 105	„	25. 2.1927	89	396	Draba 375—392 Erophila 392—396	35		Add. 372—374	

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Cucurbitaceae (incomplete)	IV 275									
Fevilleae & *Melothrieae*	IV 275 I	Cogniaux, C. A.	26. 9.1916	66	277	269—277	65		Addit. 268	
„ „ Addit.	IV 275 I	„	26. 9.1916	66	268				Addit. 268	
Cucurbiteae										
— Cucumerinae	IV 275 II	Cogniaux, C. A. & Harms, H.	28.11.1924	88	246	234—246	26		Add. 232—233	
Cycadaceae	IV 1	Schuster, J.	12. 7.1932	99	168	163—168	20, includ. 5 plates & 1 distrib. map		Add. 161—162	
Cyperaceae (incomplete)	IV 20									
Caricoideae	IV 20	Kuekenthal, G.	18. 5.1909	38	824	768—824	128		Add. 765—767 Fossil 763 Hybrid. 758—763	
Scirpoideae										
— Cypereae	IV 20	Kuekenthal, G.	1935—36	101, 1—4	671		65			
„ 1—10	IV 20	„	26.11.1935	101, 1	1—160	↑	18 (1—18)			
„ 11—20	IV 20	„	18. 2.1936	101, 2	161—320	↑	28 (19—37)			
„ 21—30	IV 20	„	28. 4.1936	101, 3	321—480	↑	15 (38—53)			
„ 31—42	IV 20	„	24.11.1936	101, 4	481—671	637—671	11 (54—65)		Add. 632—636	

Family and Sections	Family number	Author	Date published	Heft number	Total number of pages	Page(s) of index	Number of illustrations	Page(s) of index to Collectors number(s)	Page(s) of Addenda, Additamentum, Fossil Flora, Hybrids, etc.	Call number
Daphniphyllaceae	IV 147a	Rosenthal, K.	6. 6.1919	68	16	16	1			
Dioscoreaceae	IV 43	Kunth, R.	5. 8.1924	87	387	377—387	68	356—376	Add. 350—355	
Droseraceae	IV 112	Diels, L.	31. 7.1906	26	136	133—136	40; & 1 distrib. map	129—132		
Eriocaulaceae	IV 30	Ruhland, W.	27. 3.1903	13	294	283—294	40		Add. 281	
Erythroxylaceae	IV 134	Schulz, O. E.	13. 8.1907	29	76	171—176	32	164—170		
Euphorbiaceae (incomplete)	IV 147									
A. PLATYLOBEAE (incomplete)										
I *Phyllanthoideae*										
Bridelieae	IV 147 VIII	Jablonsky, E.	22. 6.1915	65	98	94—98	15	89—93		
Phyllantheae	IV 147 XV	Pax, F., & Hoffmann, K.	19. 9.1922	81	349	335—349	26	317—334	Add. 316	
II *Crotonioideae*										
Jatropheae	IV 147	Pax, F.	3. 5.1910	42	148	141—148	45	135—141	Add. 133—134	
Andrianeae	IV 147 II	„	4.10.1910	44	111	107—111	35	103—106	Addit. I 102	
Cluytieae	IV 147 III	Pax, F., & Hoffmann, K.	14. 2.1911	47	124	118—124	35	112—117	Addit. II 111	
Gelonieae	IV 147 IV	„	13. 2.1912	52	41	40—41	11			

Family and Sections	Family number	Author	Date published	Heft number	Total number of pages	Page(s) of index	Number of illustrations	Page(s) of index to Collectors number(s)	Page(s) of Addenda, Additamentum, Fossil Flora, Hybrids, etc.	Call number
Hippomeneae	IV 147 V	Pax, F., & Hoffmann, K.	13. 2.1912	52	319	303—319	58	287—302	Add. 282—283 Addit. III 284—286	
Acalypheae										
Chrozophorinae	IV 147 VI	„	22.10.1912	57	142	137—142	25	130—136	Addit. IV 124—129	
Mercurialinae	IV 147 VII	„	10.11.1914	63	473	422—473	67	428—451	Add. 396—397 Addit. V 397—427	
Plukenetiinae	IV 147 IX	„	6. 6.1919	68	1—108	↑	24 (1—24)	↑		
Epiprininae	IV 147 X	„	6. 6.1919	68	109—111	↑	1 (no. 25)	↑		
Ricininae	IV 147 XI	„	6. 6.1919	68	112—134	128—134	4 (26—29)	↑		
Dalechampieae	IV 147 XII	„	6. 6.1919	68	59	57—59	9	↑		
Pereae	IV 147 XIII	„	6. 6.1919	68	14	14	2	↑		
Additamentum VI	IV 147 XIV	„	6. 6.1919	68	81	77—81		64—76 [of this section]	Addit. VI 1—81	
Acalypheae										
Acalyphinae	IV 147 XVI	„	16. 5.1924	85	1—178 [i.e. 231]	↑	3	↑		
Additamentum VII						↑		↑		
I *Phyllanthoideae* II *Crotonioideae*	IV 147 XVII	„	16. 5.1924	85	179—204	221—231 [of this section]		205—220	Addit. VII 179—204	

Family and Sections	Family number	Author	Date published	Heft number	Total number of pages	Page(s) of index	Number of illustrations	Page(s) of index to Collectors number(s)	Page(s) of Addenda, Additamentum, Fossil Flora, Hybrids, etc.	Call number
B. Stenolobeae (complete)										
I *Porantheroideae*										
II *Ricinocarpoideae*	IV 147	Gruening, G.	15. 4.1913	58	97	94—97	16	93	*See* Euph. Addit. VI, 63.	
Note Daphniphyllaceae IV 147a see under D.										
Garryaceae	IV 56a	Wangerin, W.	12. 4.1910	41	18	18	5			
Geraniaceae	IV 129	Knuth, R.	25. 3.1912	53	640	610—640	80	588—609	Hybrid. 480—542	
Goodeniaceae	IV 277	Krause, K.	25. 3.1912	54	207	201—207	34			
Haloragaceae	IV 225	Schindler, A. K.	12.12.1905	23	133	129—133	36	Typescript list of Collectors numbers bound in Brit. Mus. Herb. Copy		
Hydnoraceae	IV 76	Solms-Laubach, H.	5.11.1901	5	9	9	5			
Hydrophyllaceae	IV 251	Brand, A.	27. 5.1913	59	210	201—210	39	187—200		
Juncaceae	IV 36	Buchenau, F.	15. 5.1906	25	284	267—284	121		Add. 264—266 Fossil 264	
Lecythidaceae	IV 219a	Knuth, R.	22. 8.1939	105	146	143—146	18	137—142	Add. 136	

Family and Sections	Family number	Author	Date published	Heft number	Total number of pages	Page(s) of index	Number of illustrations	Page(s) of index to Collectors number(s)	Page(s) of Addenda, Additamentum, Fossil Flora, Hybrids, etc.	Call number
Liliaceae (incomplete)	IV 38									
Asphodeloideae										
Aloineae	IV 38 III, II	Berger, A.	8. 5.1908	33	347	335—347	141, includ. 1 plate	331—334	Add. 329—330	
Lythraceae	IV 216	Koehne, E.	9.10.1903	17	326	309—326	59	273—308	Fossil 272	
Malpighiaceae Part I	IV 141	Niedenzu, F.	28. 2.1928	91	1—246	↑	24, (1-24)	↑		
„ „ II	IV 141	„	19. 6.1928	93	247—572	↑	16, (25-41)	↑		
„ „ III	IV 141	„	27.11.1928	94	573—870	845—870	6, (42-48)	772—844		
Marantaceae	IV 48	Schumann, K. M.	8. 7.1902	11	184		23			
Menispermaceae	IV 94	Diels, L.	6.12.1910	46	345	334—345	93	321—333		
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„ Supplement	IV 101	Perkins, J.	10.10.1911	49	67	65—67	15	59—64	Geogr. distrib. 25—26 Hybrids 78—89	
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Myzodendraceae	IV 68	Skottsberg, C.	10.11.1914	62	17	17	9			
Naiadaceae	IV 12	Rendle, A. B.	17.12.1901	7	21	20—21	5		Fossil 19	
Nepenthaceae	IV 111	Macfarlane, J. M.	20.10.1908	36	92	90—92	19			
Nyssaceae	IV 220a	Wangerin, W.	12. 4.1910	41	20	20	4			

Family and Sections	Family number	Author	Date published	Heft number	Total number of pages	Page(s) of index	Number of illustrations	Page(s) of index to Collectors number(s)	Page(s) of Addenda, Additamentum, Fossil Flora, Hybrids, etc.	Call number
Oleaceae (incomplete)	IV 243									
Oleoideae										
Fraxineae	IV 243 I	Lingelschein, A.	29. 6.1920	72	1—66	66		62—5		
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Pleonandreae (complete)	IV 50	Pfitzer, E.	27. 3.1903	12	132	115—132	41			
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Family and Sections	Family number	Author	Date published	Heft number	Total number of pages	Page(s) of index	Number of illustrations	Page(s) of index to Collectors number(s)	Page(s) of Addenda, Additamentum, Fossil Flora, Hybrids, etc.	Call number
Orobanchaceae	IV 261	Beck-Mannagetta, G.	30. 9.1930	96	348	334—348	24			
Oxalidaceae	IV 130	Knuth, R.	11. 3.1930	95	481	467—481	28	440—466	Add. 430—439	
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Papaveraceae (incomplete)	IV 104									
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Phytolaccaceae	IV 83	Walter, H.	1. 6.1909	39	154	150—154	42	142—149		
Plantaginaceae	IV 269	Pilger, R.	22. 6.1937	102	466	452—466	45	442—451		
Polemoniaceae	IV 250	Brand, A.	19. 2.1907	27	203	191—203	39	182—190	Add. 181	
Potamogetonaceae	IV 11	Ascherson, P. & Graebner, P.	29.10.1907	31	184	171—184	36	163—170	Add. 161 Fossil 160	
Primulaceae	IV 237	Pax, F. & Kunth, R.	14.11.1905	22	386	364—386	75, includ. 2 distrib. maps	349—363	Add. 346—348	
Rafflesiaceae	IV 75	Solms-Laubach, H.	5.11.1901	5	19	19	13			

Family and Sections	Family number	Author	Date published	Heft number	Total number of pages	Page(s) of index	Number of illustrations	Page(s) of index to Collectors number(s)	Page(s) of Addenda, Additamentum, Fossil Flora, Hybrids, etc.	Call number
Sapindaceae	IV 165	Radlkofer, L.	1931—34	98 a—h	1—1539	1509—39	1—46		Add. 1479—1508	
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„ 81—90	IV 165	„	29.11.1933	98 g	1275—1434	↑	7, (38—44)			
„ 91—97	IV 165	„	27. 2.1934	98 h	1435—1539	1509—1539	2, (45—46)		Add. 1479—1508	
Sarraceniaceae	IV 110	Macfarlane, J. M.	8. 5.1908	34	39	39	10, includ. 1 plate		Hybrids 35—38 Text issued in English	
Saxifragaceae (incomplete)	IV 117									
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„ Pars generalis	IV 117	Engler, A.	6. 6.1919	69	1—47					
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Family and Sections	Family number	Author	Date published	Heft number	Total number of pages	Page(s) of index	Number of illustrations	Page(s) of index to Collectors number(s)	Page(s) of Addenda, Additamentum, Fossil Flora, Hybrids, etc.	Call number
Scrophulariaceae (incomplete)	IV 257									
Antirrhinoideae										
— Calceolarieae	IV 257 C	Kraenzlin, F.	5. 4.1907	28	128	125—128	21	123—124		
Sparganiaceae	IV 10	Graebner, P.	30.10.1900	2	26	25—26	5		Fossil 24 Hybrids 24	
Sphagnales	Group III									
„ Sphagnaceae	III [...]	Warnstorff, C.	19.12.1911	51	i—iv 546	522—546	85		Add. 519—521 Foreword iii—iv	
Stylidiaceae	IV 278	Mildbraed, J.	26. 5.1908	35	98	96—98	26			
Styracaceae	IV 241	Perkins, J.	3. 9.1907	30	111	108—111	18	104—107		
Symplocaceae	IV 242	Brand, A.	5.11.1901	6	100	95—100	9	92—94	Add. 91 Fossil 91	
Taccaceae	IV 42	Limpricht, W.	28. 2.1928	92	32	32	5			
Taxaceae	IV 5	Pilger, R.	8.12.1903	18	124	120—124	24		Add. 119 Fossil 118	
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Family and Sections	Family number	Author	Date published	Heft number	Total number of pages	Page(s) of index	Number of illustrations	Page(s) of index to Collectors number(s)	Page(s) of Addenda, Additamentum, Fossil Flora, Hybrids, etc.	Call number
Tropaeolaceae	IV 131	Buchenau, F.	8. 7.1902	10	36	35—36	14			
Typhaceae	IV 8	Graebner, P.	30.10.1900	2	1—11 1—18	17—18	4		Authors & Journals; those frequently used, with their abbreviations 1—11	
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	Sphagnaceae
Group IV	**Embryophyta siphonogama**
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IV 5	Taxaceae
IV 8	Typhaceae
IV 9	Pandanaceae
IV 10	Sparganiaceae
IV 11	Potamogetonaceae
IV 12	Naiadaceae
IV 13	Aponogetonaceae
IV 14	Scheuchzeriaceae
IV 15	Alismataceae
IV 16	Butomaceae
IV 18	Triuridaceae
IV 20	Cyperaceae
IV 23	Araceae
IV 30	Eriocaulaceae
IV 32	Bromeliaceae
IV 36	Juncaceae
IV 38	Liliaceae
IV 42	Taccaceae
IV 43	Dioscoreaceae
IV 45	Musaceae
IV 46	Zingiberaceae
IV 47	Cannaceae
IV 48	Marantaceae
IV 50	Orchidaceae
IV 56a	Garryaceae
IV 61	Betulaceae
IV 68	Myzodendraceae
IV 75	Rafflesiaceae
IV 76	Hydnoraceae
IV 83	Phytolaccaceae
IV 94	Menispermaceae
IV 101	Monimiaceae
IV 104	Papaveraceae
IV 105	Cruciferae
IV 110	Sarraceniaceae
IV 111	Nepenthaceae
IV 112	Droseraceae
IV 116	Cephalotaceae
IV 117	Saxifragaceae
IV 127	Connaraceae
IV 129	Geraniaceae
IV 130	Oxalidaceae
IV 131	Tropaeolaceae
IV 134	Erythroxylaceae
IV 141	Malpighiaceae
IV 147a	Daphniphyllaceae
IV 147	Euphorbiaceae
IV 163	Aceraceae
IV 165	Sapindaceae
IV 193	Cistaceae
IV 216	Lythraceae
IV 219	Barringtoniaceae
IV 219a	Lecythidaceae
IV 219b	Asteranthaceae
IV 220a	Nyssaceae
IV 220b	Alangiaceae
IV 225	Haloragaceae
IV 228	Umbelliferae
IV 229	Cornaceae
IV 236	Myrsinaceae
IV 236a	Theophrastaceae
IV 237	Primulaceae
IV 241	Styracaceae
IV 242	Symplocaceae
IV 243	Oleaceae
IV 250	Polemoniaceae
IV 251	Hydrophyllaceae
IV 252	Borraginaceae
IV 257	Scrophulariaceae
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IV 269	Plantaginaceae
IV 275	Cucurbitaceae
IV 276	Campanulaceae
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IV 278	Stylidiaceae
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*) so far treated as given in the Foreword to the whole work (IV 45 Musaceae 1900).

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Berger, Alwin	Liliaceae
Brand, August	Symplocaceae
,, ,,	Polemoniaceae
,, ,,	Hydrophyllaceae
,, ,,	Borraginaceae
Buchenau, Franz Georg	Tropaeolaceae
,, ,,	Scheuchzeriaceae
,, ,,	Alismataceae
,, ,,	Butomaceae
,, ,,	Juncaceae
Cogniaux, Céleste Alfred	Cucurbitaceae
Cogniaux, C. A. & Harms, H.	,,
Diels, Friedrich Ludwig Emil	Droseraceae
,, ,,	Menispermaceae
Engler, Adolph H. G.	Araceae
Engler, A. & Krause, K.	Aponogetonaceae
Engler, A. [p.p. with Krause, K.]	Araceae
Engler, A. & Irmscher, E.	Saxifragaceae
Fedde, Friedrich Karl Georg	Papaveraceae
Giesen, Hans	Triuridaceae
Gilg, Ernest & Perkins, Janet	Monimiaceae
Graebner, Peter Paul Karl Otto Robert	Sparganiaceae
,,	Typhaceae
Graebner, P. & Ascherson, Paul	Potamogetonaceae
Grosser, Wilhelm	Cistaceae
Gruening, G.	Euphorbiaceae
Harms, Hermann A. T. & Cogniaux, C. A.	Cucurbitaceae
Hoffmann, Kaethe & Pax, Ferdinand	Euphorbiaceae
Irmscher, Edgar & Engler, A.	Saxifragaceae
Jablonsky, E.	Euphorbiaceae
Knuth, R. & Pax, F.	Primulaceae
Knuth, Reinhard Gustav Paul	Geraniaceae
,,	Dioscoreaceae
,,	Oxalidaceae
,,	Barringtoniaceae
,,	Lecythidaceae
,,	Asteranthaceae
Koehne, Emil	Lythraceae
Kraenzlin, Friedrich Wilhelm Ludwig	Scrophulariaceae
Kraenzlin, F. W. L. & Pfitzer, F.	Orchidaceae
Kraenzlin, F. W. L.	,,
,,	Cannaceae
Krause, Kurt & Engler, A.	Aponogetonaceae
,,	Araceae
Krause, K.	,,
,,	Goodeniaceae
,,	Brunoniaceae
Kuekenthal, Georg	Cyperaceae
Limpricht, Wolfgang	Taccaceae
Lingelschein, Alexander	Oleaceae
Macfarlane, John M.	Sarraceniaceae
,,	Nepenthaceae
,,	Cephalotaceae
Mez, Carl Christian	Myrsinaceae
,,	Theophrastaceae
,,	Bromeliaceae
Mildbraed, Johannes	Stylidiaceae
Niedenzu, Franz	Malpighiaceae
Pax, Ferdinand	Aceraceae
Pax, F. & Knuth, R. G. P.	Primulaceae
Pax, F.	Euphorbiaceae
Pax, F. & Hoffmann, K.	,,
Perkins, J. R. & Gilg, E.	Monimiaceae
Perkins, Janet Russell	Styracaceae
,,	Monimiaceae
Pfitzer, Ernest Hugo Heinrich	Orchidaceae

Author	Family
Pfitzer, E. & Kraenzlin, F.	Orchidaceae
Pilger, Robert Kund Friedrich	Taxaceae
,,	Plantaginaceae
Radlkofer, Ludwig Adolph Timotheus	Sapindaceae
Rendle, Alfred Barton	Naiadaceae
Rosenthal, K.	Daphniphyllaceae
Ruhland, Wilhelm	Eriocaulaceae
Schellenberg, Gustav	Connaraceae
Schindler, Anton Karl	Haloragaceae
Schulz, Otto Eugen	Erythroxylaceae
,,	Cruciferae
Schumann, Karl Moritz	Musaceae
,,	Marantaceae
Schumann, K. M.	Zingiberaceae
Schuster, J.	Cycadaceae
Skottsberg, Carl	Myzodendraceae
Solms-Laubach, Herman	Hydnoraceae
,,	Rafflesiaceae
Walter, Hans	Phytolaccaceae
Wangerin, Walter	Nyssaceae
,,	Garryaceae
,,	Cornaceae
,,	Alangiaceae
Warburg, Otto	Pandanaceae
Warnstorff, C.	Sphagnaceae
Wimmer, Franz Elfried	Campanulaceae
Winkler, Hubert	Betulaceae
Wolff, Hermann	Umbelliferae
Zahn, K. H.	Compositae

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4	21. 6.1901	Monimiaceae
5	5.11.1901	Hydnoraceae
5	5.11.1901	Rafflesiaceae
6	5.11.1901	Symplocaceae
7	17.12.1901	Naiadaceae
8	7. 1.1902	Aceraceae
9	6. 5.1902	Myrsinaceae
10	8. 7.1902	Tropaeolaceae
11	8. 7.1902	Marantaceae
12	27. 3.1903	Orchidaceae
13	27. 3.1903	Eriocaulaceae
14	19. 5.1903	Cistaceae
15	19. 5.1903	Theophrastaceae
16	25. 8.1903	Scheuchzeriaceae
16	25. 8.1903	Alismataceae
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17	9.10.1903	Lythraceae
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19	17. 6.1904	Betulaceae
20	4.10.1904	Zingiberaceae
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22	14.11.1905	Primulaceae
23	12.12.1905	Haloragaceae
24	2. 1.1906	Aponogetonaceae
25	15. 5.1906	Juncaceae
26	31. 7.1906	Droseraceae
27	19. 2.1907	Polemoniaceae
28	5. 4.1907	Scrophulariaceae
29	13. 8.1907	Erythroxylaceae
30	3. 9.1907	Styracaceae
31	29.10.1907	Potamogetonaceae
32	26.11.1907	Orchidaceae
33	8. 5.1908	Liliaceae
34	8. 5.1908	Sarraceniaceae
35	26. 5.1908	Stylidiaceae
36	20.10.1908	Nepenthaceae
37	8.12.1908	Araceae
38	18. 5.1909	Cyperaceae
39	1. 6.1909	Phytolaccaceae
40	21.12.1909	Papaveraceae
41	12. 4.1910	Nyssaceae
41	12. 4.1910	Garryaceae
41	12. 4.1910	Cornaceae
41	12. 4.1910	Alangiaceae
42	3. 5.1910	Euphorbiaceae
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Heft number	Date published	Family and Sections
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45	15.11.1910	Orchidaceae
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47	14. 2.1911	Cephalotaceae
47	14. 2.1911	Euphorbiaceae
48	4. 8.1911	Araceae
49	10.10.1911	Monimiaceae
50	17.10.1911	Orchidaceae
51	19.12.1911	Sphagnaceae
52	13. 2.1912	Euphorbiaceae
53	25. 3.1912	Geraniaceae
54	25. 3.1912	Goodeniaceae
54	25. 3.1912	Brunoniaceae
55	6. 8.1912	Araceae
56	22.10.1912	Cannaceae
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98f	21. 7.1933	„
98g	29.11.1933	„
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100 4	10.10.1935	„
101 1	26.11.1935	Cyperaceae
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105	22. 8.1939	Barringtoniaceae
105	22. 8.1939	Lecythidaceae
105	22. 8.1939	Asteranthaceae
106	25. 5.1943	Campanulaceae
106	1956	„ re-issued
107	30.12.1953	„

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Contributions to this column will be gratefully received by Mr. K. U. KRAMER, Botanical Museum, Lange Nieuwstraat 106, Utrecht, Netherlands.

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Afroalpine plants

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